



# 9710 Series

## Digital Delay Current Generators

The 9710 Current Pulse Generator is an ideal fire set for airbag squib, detonator and pyrotechnics initiator testing. The instrument provides adjustable current signals up to 25 amps. The unit comes with 2 or 4 digitally controlled load resistant independent outputs. Output pulse widths and delays are unique to each channel and can be precisely controlled from 0.1 to 100 ms in 200 ns steps. The 9710 Current Pulse Generator also provides a TTL Sync output to T0 – particularly useful as a reference source/trigger for cameras or other equipment.

### Basic Specifications

- 200 ns Timing Steps
- Up to 25 amps per Channel\*
- 2 or 4 Channel Outputs
- Benchtop Design
- Easy Programming Interface
- TTL Sync output to T0
- Safety Interlock



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## SPECIFICATIONS

## 9710 Series

**MODELS** 9712 - 2 independent channel outputs  
9714 - 4 independent channel outputs

Standard Communications: RS232  
Memory Storage: 12 slots

### DELAYS

**channels** independent outputs, with digitally controlled delay and

**pulsewidth.**

**current** 0 to 25 A (bank voltage 44 V minimum)\*

**resolution** 10 mA

**accuracy** 50 mA

**delay** 0 to 99.9999998 s

**resolution** 200 ns

**pulse width** 100  $\mu$ s to 100 ms\*

**resolution** 200 ns

**accuracy** 100 ns + .0001 x delay

**timebase** 5 MHz, 25 PPM crystal oscillator

**RMS jitter** 100 ns

**trig delay** ext trig to T0, 10  $\mu$ s

### EXTERNAL TRIGGER

**rate** DC to 1/ (75 ms + largest delay + period)

**threshold** 3 VDC (3 mA into optoisolator)

**impedance** 1000

### INTERNAL RATE GENERATOR

**modes** single shot, external trigger

**RMS jitter** 100 ns

### OUTPUTS(T1,T2)

**impedance** 1.405

**slew rate** > 2.5 A/ $\mu$ s

**overshoot** < 100 mA + 10% of pulse amplitude

**amplitude** 0-25 A (loads 1 - 10 ohm)

**peak current** 25 A per channel

**DC current limit** 150 mA (each channel)

### GENERAL

**weight** 10 lbs.

**power** <100 W @ 120 or 220 VAC

**communications** RS232

### OPTIONS

G - GPIB Interface

\*Contact us for other options for amperage and pulse widths.



光技術をサポートする

株式会社オプトサイエンス

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